

(10672)



# MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.  
1875 DREW RD  
MISSISSAUGA, ONTARIO  
L5S 1J5  
TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666  
"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: D2B, E

MATERIAL REFERENCE NO: 714400

## SECTION I - MATERIAL IDENTIFICATION AND USE

-----

| MATERIAL NAME/I.D.: HIGH TEST POLYMER 144 |

-----

| CHEMICAL NAME: NOT APPLICABLE | CHEMICAL FAMILY: ALKALINE BLEND |

-----

| CHEMICAL FORMULA: MIXTURE | MOLECULAR WEIGHT: NOT APPLICABLE |

-----

| SYNONYMS: NONE |

-----

| MATERIAL USE: SCALE AND CORROSION CONTROL |

-----

## SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONC.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
2-PHOSPHONOBUTANE-1,2,4-TRICARBOXILIC ACID	1.0-5.0	NO DATA	37971-36-1	>2000 MG/KG
MALEIC ANHYDRIDE/ACRYLIC ACID COPOLYMER	1.0-5.0	NO DATA	113221-69-5	NO DATA
POLYMALEIC ACID	1.0-5.0	NO DATA	26099-09-2	NO DATA
SODIUM MOLYBDATE	1.0-5.0	5 MG/M3	10102-40-6	4233 MG/KG
SODIUM TOLYTRIAZOLE	1.0-5.0	NO DATA	64665-57-2	1980 MG/KG
SODIUM HYDROXIDE	1.0-5.0	2	1310-73-2	500 MG/KG
				LDLo (RBT)

## SECTION III - PHYSICAL DATA FOR MATERIAL

-----

| PHYSICAL STATE: LIQUID |

-----

| ODOUR AND APPEARANCE: STRAW-AMBER COLOUR; SLIGHT ODOUR. |

-----

ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT AVAILABLE	1.12	NOT AVAILABLE

-----

VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT AVAILABLE	(WATER = 1) < 1	(20°C) COMPLETE

-----

BOILING POINT (C)	FREEZING POINT (C)	% VOLATILE (BY WEIGHT)
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

-----

pH (100% SOLUTION)	DENSITY (G/ML)	COEF. OF WATER/OIL DISTR
11.0-12.0	NOT APPLICABLE	NOT AVAILABLE

-----

**APPROVED MATERIAL**

NOV 09 2012

MSDS # 10672

APPROVED BY *[Signature]*



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 714400

## SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

| FLAMMABILITY: NON-FLAMMABLE |  
| IF YES, UNDER WHICH CONDITIONS: |

| MEANS OF EXTINGUISHMENT: CHEMICAL FOAM, CARBON DIOXIDE, WATER FOG |

| SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-  
| CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH  
| WATER. |

| FLASH POINT (C) AND METHOD: NON FLAMMABLE (TCC) |

| HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF CARBON, PHOSPHOROUS,  
| NITROGEN, TRACE AMOUNTS OF PHOSPHORIC ACID, TOXIC FUMES,  
| UNIDENTIFIED ORGANIC COMPOUNDS. |

UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)
NOT AVAILABLE	NOT AVAILABLE	NOT APPLICABLE

EXPLOSION DATA SENSITIVITY TO CHEMICAL IMPACT	RATE OF BURNING	EXPLOSIVE POWER
NOT AVAILABLE	NOT APPLICABLE	NOT APPLICABLE

| SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE |

## SECTION V - REACTIVITY DATA

| CHEMICAL STABILITY: NORMALLY STABLE |  
| IF NO, UNDER WHICH CONDITIONS: HIGH TEMPERATURES |

| INCOMPATIBILITY TO OTHER SUBSTANCES: YES |  
| IF SO, WHICH ONES: AVOID CONTACT WITH STRONG ACIDS, OXIDIZERS, MILD  
| STEEL, ALUMINUM, COPPER, ZINC, NITRITES, SULPHITES. |

| REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED. |

| HAZARDOUS DECOMPOSITION PRODUCTS: THERMAL DECOMPOSITION CAN LIBERATE  
| OXIDES OF CARBON, PHOSPHOROUS, NITROGEN, TRACE AMOUNTS OF PHOSPHORIC  
| ACID, TOXIC FUMES, UNIDENTIFIED ORGANIC COMPOUNDS. |

## SECTION VI - HEALTH HAZARD DATA

| ROUTE OF ENTRY: |

SKIN CONTACT: YES	SKIN ABSORPTION: NO	EYE CONTACT: YES
INHALATION: YES	INGESTION: YES	



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 714400

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:  
EYES-CONTACT CAN CAUSE MODERATE TO SEVERE IRRITATION, POSSIBLE BURNS  
SKIN-CONTACT MAY CAUSE MILD TO MODERATE IRRITATION.  
INHALATION-EXCESSIVE INHALATION OF MIST OR VAPOURS MAY CAUSE  
IRRITATION OF RESPIRATORY TRACT.  
INGESTION-MAY CAUSE IRRITATION OF GASTROINTESTINAL TRACT, NAUSEA,  
VOMITING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:  
EYES-PROLONGED OR REPEATED CONTACT MAY CAUSE EYE DAMAGE.  
SKIN-REPEATED OR PROLONGED CONTACT MAY CAUSE DRYING OF SKIN LEADING  
TO DERMATITIS.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	SKIN AND EYE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:  
NONE KNOWN

## SECTION VII - PREVENTIVE MEASURES

### PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL  
RESPIRATORY: NIOSH APPROVED RESPIRATOR IN CONFINED OR POORLY  
VENTILATED AREAS.  
EYE: FACE SHIELD OR SAFETY GOGGLES  
FOOTWEAR: IMPERVIOUS  
CLOTHING: IMPERVIOUS  
OTHER: EYE WASH AND SAFETY SHOWER  
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): PROVIDE  
LOCAL VENTILATION TO MAINTAIN AIRBORN CONCENTRATIONS WITHIN  
RECOMMENDED LIMITS.

LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.  
STOP LEAK AND CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR  
RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO INERT ABSORBANT  
AND SCOOP INTO DISPOSAL CONTAINER. FLUSH AREA WITH LARGE AMOUNTS OF  
WATER.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, PROVINCIAL AND  
FEDERAL REGULATIONS.



# MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 714400

## SECTION VIII - FIRST AID MEASURES

PROCEDURES:  
EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. IF PAIN OR IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE.  
SKIN-REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSIST, SEEK MEDICAL ASSISTANCE. LAUNDRY CLOTHING BEFORE REUSE.  
INHALATION-MOVE VICTIM TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.  
INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. NEVER GIVE ANYTHING BY MOUTH IF PERSON IS UNCONSCIOUS OR CONVULSING. GET IMMEDIATE MEDICAL ATTENTION.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

ADDITIONAL INFORMATION: NONE

## SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
NOT REGULATED			

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY WELL VENTILATED AREA IN ORIGINAL CONTAINER. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SPECIAL SHIPPING INFORMATION: HEATED

## SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	2

## SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT      TELEPHONE # (905) 456-9444  
REVISED: OCTOBER 3, 2011      REPLACES: OCTOBER 10, 2009

### DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.